

Virginia's
Drinking Water State Revolving Fund Program

Intended Use Plan for FY 2007

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The federal Safe Drinking Water Act Amendments of 1996 (P.L.104 -182), referred to as SDWA, established a Drinking Water State Revolving Fund (DWSRF) Program. Funds for the DWSRF Program are awarded to eligible states through a capitalization grant.

The Virginia Department of Health (VDH) has had primary enforcement responsibility, primacy, for SDWA since 1977. Therefore, VDH has been designated as the agency to apply for and administer the capitalization grant for the DWSRF Program and the associated state funds.

The development of an annual Intended Use Plan (IUP) is a required part of the application (§1452 (b) of the SDWA) for a capitalization grant. An IUP must describe how the capitalization grant will be expended, including all set-aside and construction funds. This IUP undergoes public comment.

Funds awarded to a state through a capitalization grant are categorized into two uses: (i) non-project funds or set-asides and (ii) project funds, which are utilized for construction at public drinking water systems (waterworks). Set-aside funds enhance the ability of the state and owners of waterworks to ensure a waterworks' long-term capacity to produce safe drinking water and to protect construction loan investments. Construction funds for waterworks are to be utilized to address public health problems and to ensure compliance with the provisions of the SDWA. Construction funds may not be utilized to satisfy growth demands.

A 20% state match is required to obtain the capitalization grant. The matching funds must be deposited into a dedicated State Loan Fund. For a dedicated State Loan Fund, VDH has directed funds to the *Virginia Water Supply Revolving Fund* (§62.1-233 et seq. of the *Code of Virginia*). Under this state law and in conjunction with VDH, the Virginia Resources Authority has certain responsibilities for individual construction loans.

Congress has set a goal of providing 15% of the amounts credited to the State Loan Fund as loan assistance to waterworks that regularly serve fewer than 10,000 persons. VDH will bypass higher ranked projects if necessary to meet this goal.

## **Funding and Financial Status**

For the federal FY **2007**, Virginia's allocation is **\$8,761,500** in federal funds. VDH has asked EPA to approve a one time transfer of \$1,080,124 from VDH's existing Expense Reimbursement Grant (ERG) into the DWSRF. Some loan repayments and interest are available. For the 20% match requirements, VDH will transfer state general funds to its designated State Loan Fund as federal funds are realized. The state will provide \$1,968,325 in general funds. Of the total available money of **\$15,538,181**, the FY2007 IUP allocates \$2,014,747 for set-asides and \$13,523,434 for State Loan Fund construction projects. No funds were transferred to VDH by the Department of Environmental Quality's (DEQ) Clean Water State Revolving Fund (CWSRF) to fund additional construction projects. Therefore, construction funds total \$13,523,434. VDH allocated 20.47169% of the grant funds as set-asides. Part of the 2% set-aside (\$22,997 or 0.2625%) is reserved for possible set-aside use in a future grant and added to the previous set-aside reserves for a total of \$9,552,766. No reserve amount has been reclaimed for set-aside use in this IUP or any previous IUP. As of June 30, 2006, loan fees with earned interest amounted to \$7,978 during the second year of fee collection (2005-2006); for a total of \$9,489 that remains unused in a separate account. No funds are to be transferred out of this Program under Section 302 of the Safe Drinking Water Act Amendments of 1996. Leveraging (bond issuance to raise capital) is a tool given yearly consideration by VDH to address imminent demand. With continual assessment, VDH may find that leveraging is needed.

In 1997, the first year of the DWSRF Program, federal funds allocated to Virginia were \$29,442,400, but the 20% state match requirement was deferred until September 30, 1999. However, in the 1998 IUP, \$1,720,940 of the deferral was provided; in the 1999 IUP, \$1,587,280; in the 2000 IUP, \$958,183; and in the 2001 IUP, the remainder of \$1,622,077. In 1997, the Commonwealth allocated 22% of the funds as set-asides; 9% (\$2,649,816) of the 10% set-aside was reserved for possible use in a future grant.

For federal FY 1998, Congress allocated \$13,895,300 to Virginia. The state added \$4,500,000 in general funds. In its 1998 IUP, VDH allocated \$2,779,060 for set-asides and \$15,616,240 for loan projects (\$11,116,240 in Federal funds and \$4,500,000 in state funds). In its 1998 IUP, VDH allocated 20% of the funds as set-asides; 8% (\$1,111,624) of the 10% set-aside was reserved for possible use in a future grant.

For federal FY 1999, Congress allocated \$14,563,600 to Virginia. The state's Appropriation Act (April 14, 1998) provided \$4,500,000 in general funds. The FY 1999 IUP allocated the total available money of \$19,063,600 as \$1,852,781 for set-asides and \$17,210,819 for State Loan Fund construction projects (\$12,710,819 in federal funds and \$4,500,000 in state funds). Therefore, VDH allocated 12.722% of the funds as set-asides; 9.278% (\$1,351,211) of the 10% set-aside was reserved for possible use in a future grant.

For federal FY 2000, Congress allocated \$15,135,800 to Virginia. The state added \$3,985,343 in general funds. The FY 2000 IUP allocated the total available money of \$19,121,143 as \$1,291,840 for set-asides and \$17,829,303 for State Loan Fund construction projects (\$13,834,960 in federal funds and \$3,985,343 in state funds).

Therefore, VDH allocated 8.535% of the funds as set-asides. The 8.415% (\$1,273,678) of the 10% set-aside is reserved for possible set-aside use in a future grant.

For federal FY 2001, Virginia's final allocation was \$15,198,400 in federal funds. Also, \$2,886,953 was moved from prior years' 15% set-aside category to construction. The state added \$5,153,137 in general funds and \$7,324 in interest. The FY 2001 IUP allocated the total available money of \$23,260,573 as \$1,745,129 for set-asides and \$21,515,444 for State Loan Fund construction projects. Therefore, VDH allocated 11.4823% of the funds as set-asides. The 0.2116% (\$32,160) of the 4% set-aside, the 0.9076% (\$137,940) of the 2% set-aside and 8.2822% (\$1,258,761) of the 10% set-aside are reserved for possible set-aside use in a future grant.

For federal FY 2002, Virginia's final allocation was \$11,127,600 in federal funds. Only a small amount of loan repayments and interest were available. The state added \$4,500,000 in general funds. The FY2002 IUP allocated the total available money of \$15,816,207 as \$1,373,642 for set-asides and \$14,442,565 for State Loan Fund construction projects. Also, \$1,000,000 was transferred by DEQ's CWSRF to fund additional drinking water construction projects. Therefore, construction funds totaled \$15,442,565. VDH allocated 12.3445% of the grant funds as set-asides. The 1.1761% (\$130,868) of the 4% set-aside, the 1.1340% (\$126,184) of the 2% set-aside and 4.5088% (\$501,724) of the 10% set-aside are reserved for possible set-aside use in a future grant.

For the federal FY 2003, Virginia's allocation was \$11,060,700 in federal funds. Some loan repayments and interest were available. The state added \$4,500,000 in general funds. The FY2003 IUP allocated the total available money of \$16,509,379 as \$1,881,913 for set-asides and \$14,627,466 for State Loan Fund construction projects. No funds were transferred to VDH by DEQ's CWSRF to fund additional construction projects. Therefore, construction funds total \$14,627,466. VDH allocated 17.0144% of the grant funds as set-asides. The 1.2266% (\$135,674) of the 2% set-aside and 0.9414% (\$104,125) of the 10% set-aside are reserved for possible set-aside use in a future grant.

For the federal FY 2004, Virginia's allocation was \$11,473,900 in federal funds. Some loan repayments and interest were available. The state added \$2,294,780 in general funds. The FY2004 IUP allocated the total available money of \$15,601,105 as \$1,824,040 for set-asides and \$13,777,065 for State Loan Fund construction projects. No funds were transferred to VDH by DEQ's CWSRF to fund additional construction projects. Therefore, construction funds totaled \$13,777,065. VDH allocated 15.89730% of the grant funds as set-asides. All of the 2% set-aside (\$229,478) and 1.10081% (\$126,306) of the 10% set-aside were reserved for possible set-aside use in a future grant.

For the federal FY 2005, Virginia's allocation was \$11,449,600 in federal funds. Some loan repayments and interest were available. The state added \$2,289,920 in general funds. The FY2005 IUP allocated the total available money of \$16,182,303 as \$2,046,944 for set-asides and \$14,135,359 for State Loan Fund construction projects. No funds were transferred to VDH by the Department of Environmental Quality's (DEQ) Clean Water State Revolving Fund (CWSRF) to fund additional construction projects. Therefore, construction funds totaled \$14,135,359. VDH allocated 17.87787% of the

grant funds as set-asides. All of the 2% set-aside (\$228,992) is reserved for possible set-aside use in a future grant.

For the federal FY 2006, Virginia's allocation was \$8,761,500 in federal funds. Some loan repayments and interest were available. The state added \$1,752,300 in general funds. The FY2006 IUP allocated the total available money of \$13,625,686 as \$1,670,610 for set-asides and \$11,955,076 for State Loan Fund construction projects. No funds were transferred to VDH by the Department of Environmental Quality's (DEQ) Clean Water State Revolving Fund (CWSRF) to fund additional construction projects. Therefore, construction funds total \$11,955,076. VDH allocated 19.06763% of the grant funds as set-asides. Part of the 2% set-aside (\$131,230 or 1.4978%) is reserved for possible set-aside use in a future grant.

**Summary**  
**Virginia Drinking Water State Revolving Fund Program**  
**Intended Use Plan**  
**FY 2007**

**I. SOURCES**

|                               |                      |                     |                                                            |                                                    |
|-------------------------------|----------------------|---------------------|------------------------------------------------------------|----------------------------------------------------|
| Federal                       | <b>FY 2007</b>       | Allocation =        | <b>\$8,761,500</b>                                         | based on a national appropriation of \$850 million |
|                               |                      | ERG reprogrammed =  | <b>\$1,080,124</b>                                         | from Form 424;VDH signed 8-3-2006                  |
|                               |                      |                     |                                                            | <b>\$9,841,624</b>                                 |
| State's General Fund          | 20% match required = | \$1,968,325         |                                                            |                                                    |
| <b>SUBTOTAL 1</b>             |                      |                     |                                                            | <b>\$11,809,949</b>                                |
| Other state funds =           |                      |                     | <b>\$0</b>                                                 |                                                    |
| Total state funds this year   | \$1,968,325          |                     |                                                            |                                                    |
| <b>SUBTOTAL 2</b>             |                      |                     |                                                            | <b>\$11,809,949</b>                                |
| Other sources =               |                      |                     |                                                            |                                                    |
| interest earned (0945)        |                      | \$2,844             | from the 7-26-2006 Commonwealth Accounting & Report System |                                                    |
| interest earned (VWSRF)       |                      | \$427,127           | from VRA August 2006 & adjusted for two 0945 transfers     |                                                    |
| repaid principal to 6-30-2006 |                      | \$2,770,488         | from VRA August 2006 P & I repayments report               |                                                    |
| repaid interest to 6-30-2006  |                      | \$527,772           | from VRA August 2006 P & I repayments report               |                                                    |
|                               | <b>\$3,728,232</b>   |                     |                                                            |                                                    |
| <b>SUBTOTAL 3</b>             |                      |                     |                                                            | <b>\$15,538,181</b>                                |
| TRANSFER from DEQ's CWSRF     |                      | \$0                 |                                                            |                                                    |
| Grand Total Funds Available = |                      | <b>\$15,538,181</b> |                                                            |                                                    |

**II. USE for Set-asides**

| Category  | Maximum % and Name                            | Percent chosen | Amount      |
|-----------|-----------------------------------------------|----------------|-------------|
| 1         | 4% Administration and Technical Assistance    | 4.0000%        | 393,665     |
| 2         | 2% Small System Technical Assistance          | 1.7375%        | 171,000     |
| 3         | 10% State Program Management                  | 10.00000%      | 984,162     |
| 4         | 15% Local Assistance and other State Programs | 4.73417%       | 465,919     |
| Sub-total |                                               | 20.47169%      | \$2,014,747 |

**III. USE for Loan funds**

|                                                                           |                     |                            |                     |
|---------------------------------------------------------------------------|---------------------|----------------------------|---------------------|
| Federal Allocation =                                                      | \$9,841,624         |                            |                     |
| minus set asides                                                          | <u>\$2,014,747</u>  |                            |                     |
| Federal loan funds                                                        | \$7,826,877         | 89.33262% of federal grant |                     |
| plus 20% match required =                                                 | <u>\$1,968,325</u>  |                            |                     |
| <b>SUBTOTAL</b>                                                           |                     | \$9,795,202                |                     |
| plus Other state funds =                                                  | \$0                 |                            |                     |
| <b>SUBTOTAL</b>                                                           |                     | \$9,795,202                |                     |
| plus other sources =                                                      | \$3,728,232         |                            |                     |
| <b>SUBTOTAL</b>                                                           |                     | \$13,523,434               |                     |
| plus Transfer from DEQ's CWSRF                                            | \$0                 |                            |                     |
| <b>TOTAL Amount available</b>                                             | <b>\$13,523,434</b> |                            |                     |
| Amount available after subtracting Set-asides =                           |                     |                            | \$13,523,434        |
| Amount loaned to Demonstration Project for Southwest Virginia Endowment = |                     |                            | <b>\$0</b>          |
| <b>Balance available for individual project loan and subsidies =</b>      |                     |                            | <b>\$13,523,434</b> |
| Subsidies --up to 30% of grant may be used =                              |                     | 30.00%                     | \$2,628,450         |
| Loans =                                                                   |                     |                            | <u>\$10,894,984</u> |
| Total =                                                                   |                     |                            | <b>\$13,523,434</b> |

## **SUMMARY OF ACTIVITIES IMPLEMENTED BY THIS IUP**

The preceding Summary Chart shows the percentages of the federal grant reserved for set-aside activities and construction loan assistance to eligible applicants. State match funds are appropriated as general funds for the Virginia Department of Health (VDH) to provide the 20% match.

All these construction funds will be provided to waterworks that serve less than 10,000 persons. Within the construction funds, 30% of the grant is allotted to disadvantaged waterworks. Actual usage of the 30% is subject to individual determinations on loan terms for each applicant meeting the definition of disadvantaged.

The particular percentages to be used for each of the four set-aside categories are shown in the Summary Chart.

## **THE VIRGINIA DWSRF PROGRAM**

The document dated January 20, 2006, entitled “Virginia Drinking Water State Revolving Fund Program - Program Design Manual” is a part of the Intended Use Plan. This Manual explains the Program’s overall goal, the set-aside and construction aspects of the Program, entities eligible for funding, interest rates and terms, and criteria used to establish a Project Priority List.

The Program Design Manual addresses the unique **1452 (k) Loans** set-aside provision (under the 15% set-aside) that allows purchase of land or conservation easements as well as funds for certain source water protection programs. This is a separate provision of the Program, and infrastructure projects are not required in conjunction with the use of these funds. The Manual contains criteria for evaluating and ranking applicants.

## **LONG AND SHORT TERM GOALS**

VDH bases the DWSRF Program on the fact that safe drinking water is essential to public health. The goal of VDH in administering the capitalization grant is to provide a comprehensive and integrated technical and financial assistance program to waterworks owners through a balanced approach of using set-aside funding and construction loan funds to achieve the following objectives:

### **A. Long Term**

- Help assure that Virginians will be the healthiest people in the nation, in regards to drinking water.
- Protect the public health and welfare by planning and directing activities that assure adequate water quantity and quality are provided to users of waterworks.
- Assist waterworks owners in complying with federal and state mandated drinking water regulations through both programmatic and construction assistance.

- Assist and encourage waterworks owners to develop strategies to obtain and maintain the capacity (adequate managerial, technical, and financial capability and well-trained operators) to provide safe drinking water for the long term.
- Assist waterworks owners in the protection of their source waters by developing or assisting to develop source water protection programs.
- Assist waterworks owners in correcting health problems related to drinking water through both programmatic and construction assistance.
- Aggressively market the available drinking water programmatic and construction assistance, to assist waterworks owners and consumers.

#### B. Short Term

- Receive each year's DWSRF Program money as soon as possible from EPA so Virginians may benefit.
- Assist waterworks owners by creating innovative technical assistance programs.
- Promote consolidation and regionalization of water supplies and waterworks through both programmatic and construction assistance.
- Provide a source of low cost financing for drinking water needs.
- Ensure that all new Community and Nontransient Noncommunity water systems beginning operation after October 1, 1999, have the technical, financial, and managerial capacity with respect to each national primary drinking water standard in effect, or likely to be in effect, on the date of starting operations.
- Ensure that operator certification regulations meeting EPA national requirements are applied and that coordination is achieved to provide training courses, especially for the lower classifications of licensed operators needed at the smaller waterworks.

### **DEMONSTRATION PROJECT FOR STATE OF VIRGINIA**

The SDWA authorizes Virginia to establish a special demonstration project to loan funds to a regional endowment to "...finance new drinking water facilities..." in an area of Southwest Virginia encompassing Planning Districts 1 and 2. This endowment was established to assist in meeting the special needs of Southwest Virginia. In prior years, VDH elected to provide a total of \$10 million from its capitalization grants as loans to the endowment. That goal has been reached and no additional funding is provided. The relationship between this special endowment program and the Virginia DWSRF Program is that of the loan and the common goal of correcting health needs.

### **TRANSFER OF FUNDS**

Subject to the maximums allowed under the SDWA, set-aside funds may be transferred between another set-aside or between the State Loan Fund but no grant payments (per the DWSRF Program Rule) for the State Loan Fund may be transferred to a set-aside.

No DEQ CWSRF repayment revenue is planned for transfer into the DWSRF Program under Section 302 of the Safe Drinking Water Act Amendments of 1996. Such transfer funds can only be used as loan funds, not grants. VDH has not requested funds from DEQ as VDH's current list of drinking water projects that are ready to proceed can be fully funded without a transfer.

## **FINANCIAL HEALTH**

The DWSRF Program will be managed to maximize both the tangible and intangible benefits available to waterworks owners and Virginians. The financial health of the Program lies in two areas, in active non-construction activities and in loans. Both areas interact and affect the other's effectiveness. Activities promoting or enhancing delivery of a safe potable drinking water reduce the demand on the loan area by insuring the long-term well being of the waterworks. A State Loan Fund will be maintained in perpetuity for providing financial assistance as authorized and limited by the SDWA. A State Loan Fund will be maintained in accordance with the SDWA and will be credited with all payments, repayments of principal and interest on loans, interest on loan accounts and any other source of income accruing to a State Loan Fund. By coordinating the two areas of non-construction and project loans, the overall long-term financial health of the Program will be maintained to the benefit of Virginians. This coordination will be done by the strategy of at least annually coupling programmatic considerations with the results of a planning model that considers the aggregate effects of altering financial parameters of the Program. Procedures will be either revised or implemented as needed.

In the Disadvantaged Program (described in VDH's Program Design Manual), loan subsidies in the form of principal forgiveness will decrease the loan funds available; however, principal forgiveness coupled with a comprehensive business plan (capacity development) will reduce the demand on the loan fund by insuring the long term well-being of the waterworks. It will allow waterworks to undertake projects they could not otherwise construct and, therefore, protect the public health. This strategy is one of the strong themes encouraged by Congress.

A unique feature of the Virginia DWSRF Program is the federal statutory language allowing a pilot demonstration project in Southwest Virginia. The Commonwealth has made loan(s) to a regional endowment, and such loan(s) will be repaid with terms and conditions like any other project loan. These loan funds will be invested, and investment proceeds can be for uses other than normally specified by Congress. Such uses will assist in correcting problems faced by communities in Southwest Virginia.

## **USE OF FUNDS**



## PROJECTS:

Attached is the Comprehensive Project List showing the rank of projects from 1 to 33. Also attached is the Project Priority List that contains those projects VDH targets to receive funds from this year's funding.

## SET-ASIDES:

The set-asides are four categories where non-project funds may be used for specified purposes up to a maximum amount indicated in federal statute. Attached are suggestions for the use of set-aside funds received during the solicitation or public input phase of IUP development. This IUP's set-aside use distribution is shown in the preceding Summary Chart. Shown below are the set-aside uses.

- A. Administration and Technical Assistance (**\$393,665** which is **all** of the maximum 4% allowed.)
1. Administration – (\$393,665). The purpose of this set-aside is to finance the administrative functions of the Program, such as solicitation of applications, review of selected projects, environmental reviews, determination of applicant's ability to pay back loans, and VDH travel to EPA/CIFA meeting. From this grant, VDH has budgeted \$277,064 to the Virginia Resources Authority (VRA) for credit analysis summaries for each project, project loan closings, funding disbursements, accounting tasks, compliance review of closed loans, annual audit of the construction loan fund, and participation with VDH on EPA's annual onsite program review.
  2. Technical Assistance – (\$0). No new money is added this year.
- B. Small System Technical Assistance (**\$171,000** out of the 2% maximum allowed; the remaining \$22,997 or 0.2625% will be reserved for possible use out of a future grant.)
- Provide technical assistance to small waterworks (transient noncommunity) that includes working with the transient noncommunity waterworks to understand the waterworks' responsibilities and reporting requirements under state and federal law. Funds will pay for the equivalent of 3.5 full-time employees (FTE), i.e., 4 part-timers for 1,500 hours per year for 1 year. Funds were provided in earlier grants; no new money is added this year (\$0). (2004 IUP activity).
  - Work with waterworks in developing and implementing a Source Water Protection Program (SWPP). These waterworks will be selected by solicitation of those interested in developing a SWPP. Funds were provided in earlier grants; no new money is added this year (\$0).
  - Professional Development Seminar Series - Provide specialty seminars and training events for waterworks owners on topics such as emergency planning, business plan development, emerging technology, regulatory compliance, etc. Funds were provided in earlier grants; **new money is added** this year (\$171,000).

C. State Program Management (\$ **984,162** which is **all** of the **10%** maximum allowed.)

1. Public Water System Supervision

- Improve the process to implement new federal rules. Funds will pay for the equivalent of 0.5 FTE of effort for 1 year. This person (regulation developer) will coordinate the efforts needed by the state to develop and process the adoption of any necessary regulations. Funds were provided in earlier grants; new money is added this year (\$5,378 including fringes and indirect costs).
- Continue the FY 2002 consolidation of regulatory oversight of the transient noncommunity waterworks within the Office of Drinking Water by supporting seven full-time positions (\$412,347 including fringes and indirect costs).
- Continue the FY 2003 initiative to improve the enforcement program by funding a full-time enforcement specialist position (\$38,991 including fringes and indirect costs).
- Continue to lease office space in order to carry out drinking water activities (\$409,760).
- Continue funds for a contract for a part-time computer support technician's activities (\$12,500).
- Continue funds to support a courier system to deliver required samples to Division of Consolidated Labs (DCLS) (\$65,856).

2. Source Water

- Improve VDH's ability to assist waterworks to implement new federal rules. Funds will pay for the equivalent of 0.5 FTE of effort for 1 year. This position will coordinate the efforts needed by the state to oversee source water activities including specialized projects in Karst areas, contracts to waterworks to do specialized studies, and independent studies initiated by VDH. This IUP continues funding included in earlier grants (\$39,330 including fringes and indirect costs).

3. Capacity Development

No proposed activities.

4. Operator Programs

- Continue activity from prior grant to provide support for the distance learning website at Mountain Empire Community College. Use funds in earlier grants; no new money is added (\$0).

D. Local Assistance and other State Programs (\$465,919 which is 4.7342% of the maximum). The maximum is 15% with no more than 10% in a category).

1. Loan and Protection Measures

- No new money is added this year for waterworks to buy land or conservation easements necessary for source water protection (\$0).
- No new money is added this year for implementing voluntary incentive based source water protection measures (\$0).

2. Capacity Development (\$415,919 which is 4.23%)

- Receivership Program will assist in stabilizing waterworks lacking managerial and technical operation capacity. This activity will add to the tools in the VDH's Capacity Development Strategy. This process begins after a court appoints a receiver from a list supplied by VDH. This unconventional technical assistance activity will provide funds for a limited time (about one year) to supplement the waterworks revenue to pay for the receiver's contract and for stabilizing activities needed to provide safe water to existing consumers. In about one year of activity the waterworks would be connected to an existing waterworks or a new owner found. Use funding from prior grants. No new funding added this year (\$0). (2004 IUP activity).
- Technical Assistance - continue funds for capacity development/project planning technical assistance grants. **New money** is added this year (\$300,000).
- Leak detection program grant – this new activity will assist waterworks owners by providing specific funds for leak detection activities. The results will provide owners the information needed to upgrade aged waterlines. Funds were provided in earlier grant; **new money** is added this year (\$50,000). (2005 IUP activity).
- Short course entitled “Properly Funding Your Waterworks Needs” will assist waterworks owners in identifying their funding, staffing and other needs as well as how to approach budgeting, rate making and business plan development. **New money** is added this year (\$65,919). (2007 IUP activity).

3. Source Water

No funds are allowed after the FY 1997 grant.

4. Wellhead Protection

Funds are proposed for use in supplementing existing state efforts to further protect source water. Funds were provided in earlier grants; **new money** is added this year (\$50,000). (2005 IUP activity).

DWSRF Program  
Set-aside Suggestion List  
FY 2007

The Virginia Department of Health received these suggestions during the solicitation / public input phase of developing the Intended Use Plan and considered them in the development of the set-aside portion of the Intended Use Plan.

| Name                                                        | Suggested Amount | Activity Description                                                                                                                                             | Funded Yes/No | Amount      |
|-------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|
| Jim Spencer,<br>Tazewell<br>County                          | \$50,000.00      | Perform leak detection activities to identify needed upgrades to waterline.                                                                                      | Yes           | \$50,000.00 |
| Mountain<br>Empire<br>Community<br>College                  | \$74,884.00      | Continue development of on line Water Degree Program; build,modify and maintain its web site;hire staff; buy software; etc.                                      | No            | \$0.00      |
| Southeast Rural<br>Community<br>Assistance<br>Project, Inc. | \$99,838.00      | Rural Technical Assistance Provider (circuit rider) to help with various issues such as abandoned wells, operator certification, vulnerability assessments, etc. | No            | \$0.00      |
| TOTALS                                                      | \$224,722.00     |                                                                                                                                                                  |               | \$50,000.00 |

DWSRF Program - FY 2007  
Project Priority List

| FY 2007 Virginia DWSRF Program |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    | Designation Codes: |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|---------------------------------------|------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------------|-------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                            | Owner Type | Project Name                                          | Project Description                                                                                                                                                                                                                                                    | Project Problem                                                                                                        | Project Benefit                                                                                                                                                                    | Population         | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     |                         |                                                                   |             |      |                    |                  |                                             |             | 13,523,434      |
| 2015450                        | Augusta        | Augusta County Service Authority      | P-O        | Augusta Co SA-Middlebrook Filtration Project          | The proposed project includes the installation of one skid-mounted membrane filtration unit rated for 30,000 gpd.                                                                                                                                                      | Dramatic decline in water quality including high fecal coliform counts.                                                | This project will benefit the public health of residents and businesses by increase protection against gastrointestinal illnesses through improvements in filtration.              | 85                 | 37                  | H                       | Active - Has other VDH funding                                    | 30          | 1    | 226,908            | 223,072          | 198,534                                     | 198,534     | 13,324,900      |
| 1191                           | Washington     | Washington County Service Authority   | P-O        | Washington Co SA-Mendota Road -Line Extension Phase I | The proposed project would construct 8,625 feet of 8" waterline. This project is the first phase of a larger project which will extend water all the way to the Mendota community. Fire flows will be provided and the source of supply will be the WCSA.              | Questionable quality and quantity water from private sources.                                                          | This project will provide water those persons who do not have access to public drinking water.                                                                                     | 35                 | 15                  | H                       | Active                                                            | 18          | 2    | 270,644            | 248,144          | 248,144                                     | 446,678     | 13,076,756      |
| 1191883                        | Scott          | Scott County Public Service Authority | P-O        | Boozy Creek Phase II - Line Extension                 | The proposed project will include installation of 19,193 LF of 8" water line; installation of 8,618 LF of 6" water line; installation of 2,400 LF of 4" water line; installation of 500 LF of 2" water line; installation of 2,400 LF of 3/4" water line.              | Inadequate water quality and quantity of available water sources and contamination of individual springs and/or wells. | This Phase II will improve the overall quality of life and welfare for 45 households and provide for a safe and reliable water service provided by this extension of public water. | 81                 | 45                  | H                       | Active - Has other VDH funding                                    | 17          | 3    | 1,037,292          | 1,007,292        | 423,063                                     | 869,741     | 12,653,693      |
| 1169650                        | Scott          | Scott County Public Service Authority | P-O        | Scott Co PSA-A.P. Carter Highway -Line Extension      | The proposed project will include installation of 4,000 LF of 8" water line; installation of 14,765 LF of 6" water line; installation of 6,500 LF of 4" water line; installation of 1,800 LF of 3/4" water line, installation of 20 fire hydrants for fire protection. | Individual springs and/or wells with inadequate water quality, quantity, and contamination.                            | The extension will improve the overall quality of life and welfare for 48 households, provide safe and reliable water by this extension of public water service.                   | 106                | 48                  | H                       | Active - Has other VDH funding                                    | 17          | 4    | 1,140,037          | 1,100,037        | 620,037                                     | 1,489,778   | 12,033,656      |

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|--------------------------------|----------------|-------------------------------------|------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------------|-------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
| FY 2007 Virginia DWSRF Program |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      | Designation Codes: |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     |                         |                                                                   |             |      |                    |                  | Eligible Amount (estimated) from this Grant |             |                 |
| PWS ID                         | County or City | Owner Name                          | Owner Type | Project Name                                       | Project Description                                                                                                                                                                                                                                    | Project Problem                                                  | Project Benefit                                                                                                                                                      | Population         | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount |                                             | Cummulative | Grant Remaining |
| 1191                           | Washington     | Washington County Service Authority | P-O        | WCSA-Tumbling Creek Road Water line Extension      | The proposed project would construct approximately 3,500 feet of 4" waterline. The water line extension would be from the Hayters Gap community water supply.                                                                                          | Questionable quality and quantity of water from private sources. | This project would water to approximately 4 residential connections who presently do not have access to public water and improve service for 3 existing connections. | 10                 | 4                   | H                       | Active                                                            | 16          | 5    | 69,502             | 63,502           | 63,502                                      | 1,553,280   | 11,970,154      |
| 1191                           | Washington     | Washington County Service Authority | P-O        | WCSA-Walker Mountain Rd-Waterline Extension        | The proposed project would construct 5,400 feet of 4-inch waterline and a pumping system consisting of a pitless adapter pump station operated by programmable logic controllers (PLCs) according to demand and a hydropneumatic tank station.         | Questionable quality and quantity of water from private sources. | The project will provide water to approximately 8 residential connections who do not presently have access to public drinking water.                                 | 19                 | 8                   | H                       | Active                                                            | 16          | 6    | 180,730            | 168,730          | 168,730                                     | 1,722,010   | 11,801,424      |
| 1520070                        | Bristol        | Bristol Virginia Utilities          | P-O        | Bristol View Connector-Line Extension              | To construct 12,250 LF of 16" ductile iron pipe, gate valves, and related items.                                                                                                                                                                       | Pump station has recurring maintenance issues.                   | This project will allow the transfer of water directly from the Jonesboro pressure zone to the Bristol View pressure zone without the need for pumping.              | 17308              | 7976                | H                       | Active                                                            | 28          | 7    | 1,506,841          | 1,506,841        | 1,506,841                                   | 3,228,851   | 10,294,583      |
| 1173                           | Smyth          | Smyth County Board of Supervisors   | P-O        | Smyth Co. BOS-North Holston Area -Line Replacement | The project totals approximately 3,150 linear feet of 6" PVC, 400 linear feet of 4" PVC, 1,800 linear feet of 2" PVC to serve these residences, replacement of an existing Pressure Reducing Vault and fire hydrants are also planned for replacement. | Deteriorating galvanized pipes causing significant water loss.   | This project will improve the water quality, pressure, and volume.                                                                                                   | 213                | 85                  | H                       | Active                                                            | 26          | 8    | 523,000            | 473,000          | 473,000                                     | 3,701,851   | 9,821,583       |

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| Designation Codes:             |                |                                          |            |                                                     |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |            |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|------------------------------------------|------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|-------------------------|-------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
| FY 2007 Virginia DWSRF Program |                |                                          |            |                                                     |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |            |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                     |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |            |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                     |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |            |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                     |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |            |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                     |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |            |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                               | Owner Type | Project Name                                        | Project Description                                                                                                                                                                                                                                          | Project Problem                                                                                | Project Benefit                                                                                                                                                                                               | Population | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 5143210                        | Pittsylvania   | Gretna, Town of                          | P-O        | Gretna Water Treatment Plant Filter Rehabilitation  | The scope of the rehabilitation/repairs: remove and dispose of media, clean out filter box, remove and replace existing pipe underdrain, repair underdrain, replace existing nozzles with new nozzles, clean out plenum, furnish and install new media, etc. | Significant amount of media loss and the media is no longer uniform.                           | Improvements to the WTP will eliminate the probability of failures of the rapid sand filters and will also allow the filters to meet current 0.3 NTU requirements and help to achieve future turbidity goals. | 1257       | 641                 | H                       | Active                                                            | 33          | 9    | 197,000            | 197,000          | 197,000                                     | 3,898,851   | 9,624,583       |
| 1167050                        | Russell        | Russell County W & S Authority           | P-O        | Castlewood Heights Water Line Replacement           | The project includes approximately 8,000 LF of water line replacement in Castlewood Heights and Clairmont Estates Subdivisions and at least six fire hydrants will be included in the project.                                                               | Unreliability of water from small old galvanized water lines which experience frequent breaks. | The project will improve the reliability of water and leaks.                                                                                                                                                  | 238        | 95                  | H                       | Active - Has other VDH funding                                    | 31          | 10   | 427,378            | 400,000          | 300,000                                     | 4,198,851   | 9,324,583       |
| 2560100                        | Allegheny      | Clifton Forge, Town of                   | P-O        | Town of Clifton Forge Metering Program-Phase I      | The metering project will install 1,421 water meters to all customers.                                                                                                                                                                                       | Town's water system has few water meters and no way to determine system leakage.               | This project will give the Town the ability to manage the water system and help to determine the amount of water loss that is occurring in the system.                                                        | 4289       | 1471                | H                       | Active - Has other VDH funding                                    | 20          | 11   | 2,793,950          | 1,034,000        | 760,500                                     | 4,959,351   | 8,564,083       |
| 1027061                        | Buchanan       | Buchanan County Public Service Authority | P-O        | Buchanan Co PSA-Hurley/Roseann Water Line Extension | The proposed water distribution system will consist of 12,200 LF of 8-inch water line; 7,200 LF of 6-inch water line; 7,300 LF of 3/4-inch service line; 13 fire hydrants and appurtenances including gate valves, blow-off valves, air release valves, etc. | Individual wells or springs with contaminated water.                                           | This new water system will connect service to those not currently served by a public water system.                                                                                                            | 184        | 62                  | H                       | Active                                                            | 32          | 12   | 1,357,957          | 152,961          | 152,961                                     | 5,112,312   | 8,411,122       |



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|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |            |                     | Designation Codes: |                                | H = health                                                        |      |                    |                  |                                             |             |                 |  |  |
|--------------------------------|----------------|-------------------------------------------|------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------|---------------------|--------------------|--------------------------------|-------------------------------------------------------------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|--|--|
| FY 2007 Virginia DWSRF Program |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |            |                     |                    |                                | O = other                                                         |      |                    |                  |                                             |             |                 |  |  |
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |            |                     |                    | N = not eligible               |                                                                   |      |                    |                  |                                             |             |                 |  |  |
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |            |                     |                    | P = in pipeline;pending        |                                                                   |      |                    |                  |                                             |             |                 |  |  |
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |            |                     |                    | I I                            | projects are in the pipeline for correction of problems           |      |                    |                  |                                             |             |                 |  |  |
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |            |                     |                    | V                              | with their response/lack of response to our solicitation request. |      |                    |                  |                                             |             |                 |  |  |
| PWS ID                         | County or City | Owner Name                                | Owner Type | Project Name                                       | Project Description                                                                                                                                                                                                                                                | Project Problem                                                                                                 | Project Benefit                                                                                                          | Population | Project Connections | Designation        | Activity                       | Point Total                                                       | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |  |  |
| 1167050                        | Russell        | Russell County W & S Authority            | P-O        | Blue Devil Water Tank Replacement                  | The project includes demolition of an existing 600,000 gallon welded steel water tank, construction of a new 440,000 gallon glass-coated water storage tank on the existing tank footprint, and a check valve vault that will allow the tank to be filled.         | Water storage tank in poor condition.                                                                           | The project will replace an existing water tank that is vital due to its central location within the water system.       | 2600       | 1022                | H                  | Active - Has other VDH funding | 28                                                                | 13   | 407,192            | 334,000          | 200,400                                     | 5,312,712   | 8,210,722       |  |  |
| 1520070                        | Bristol        | Bristol Virginia Utilities                | P-O        | Hassan Heights- New Water Tank                     | To construct a new 2 million gallon water storage tank in the Exit 7 area, in the area of Hassan Heights; associated work includes 1,750 LF of 16" ductile iron pipe, access road, and related items.                                                              | Insufficient storage capacity within the customer service area in the event of a serious main water line break. | This project will ensure a water supply sufficient to provide water to the customers in the event of a water line break. | 17308      | 7976                | H                  | Active                         | 13                                                                | 14   | 959,227            | 959,227          | 959,227                                     | 6,271,939   | 7,251,495       |  |  |
| 1169650                        | Scott          | Scott County Public Service Authority     | P-O        | Scott Co PSA- Frisco (Rt 639) Water Line Extension | This project consists of approximately 19,000 LF of 4-and 6-inch water lines and all associated appurtenances. This system is an extension off of the existing Yuma water system, which the Scott County PSA owns and operates.                                    | Unreliable water from privately owned wells and springs.                                                        | This project will benefit the 30 residential connections being served by a central water system to meet their needs.     | 69         | 30                  | H                  | Active - Has other VDH funding | 17                                                                | 15   | 667,728            | 667,728          | 280,446                                     | 6,552,385   | 6,971,049       |  |  |
| 1105                           | Lee            | Lee County Public Service Authority       | P-O        | Robbins Chapel Water Extension Phase II            | The proposed project will include: installation of 2,000 LF of 10" water line; installation of 1,000 LF of 8" water line; installation of 25,750 LF of 6" water line; installation of 1,000 LF of 4" water line; installation of 4,000 LF of 3/4" water line ,etc. | Inadequate water quality, quantity, and/or contaminated private water systems.                                  | This project will allow residents to have safe, reliable and quality water service.                                      | 180        | 72                  | O                  | Active - Has other VDH funding | 42                                                                | 16   | 1,940,816          | 676,142          | 283,980                                     | 6,836,365   | 6,687,069       |  |  |
| 1051726                        | Dickenson      | Dickenson County Public Service Authority | P-O        | Dickenson Co PSA-Tempest Branch Line Extension     | The proposed project will consist of approximately 9,520 LF of 6" and 4,200 LF of 2" water line and appurtenances.                                                                                                                                                 | No reliable safe water source and a health hazard exists in this area.                                          | This project will provide a safe reliable water supply to the homes within the service area and promote modest growth.   | 107        | 42                  | O                  | Active                         | 22                                                                | 17   | 321,200            | 321,200          | 321,200                                     | 7,157,565   | 6,365,869       |  |  |

| FY 2007 Virginia DWSRF Program |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             | Designation Codes:                                                                                                                             |            |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|---------------------------------------------|------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|-------------------------|-------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                                  | Owner Type | Project Name                                      | Project Description                                                                                                                                                                                                                                                            | Project Problem                                                                             | Project Benefit                                                                                                                                | Population | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 1185685                        | Tazewell       | Tazewell County Public Service Authority    | P-O        | TCPSA-Red Ash Water Line Extension                | The proposed project includes approximately 18,000 LF of 6-inch water line; 1,000 LF of 4-inch water line; 6,750 LF of 3/4-inch water line; one pressure reducing valve vault and other associated appurtenances.                                                              | Unsafe and unreliable source of water from privately owned wells or springs.                | This project will provide a safe reliable waater source for the project area.                                                                  | 203        | 81                  | O                       | Active - Has other VDH funding                                    | 16          | 18   | 1,242,963          | 309,055          | 309,055                                     | 7,466,620   | 6,056,814       |
| 1195900                        | Wise           | Wise County Public Service Authority        | P-O        | Lower Birchfield Water Line Extension             | The proposed project includes: installation of 10,570 LF of 8" water line; installation of 33,100 LF of 6" water line; installation of 5,950 LF of 4" water line; installation of 1,815 LF of 2" water line; installation of 3,200 LF of 3/4" water line; etc.                 | Individual wells and springs with inadequate water quality, quantity, and/or contamination. | This project will allow residents to have a safe, reliable, quality of water service.                                                          | 203        | 81                  | O                       | Active                                                            | 16          | 19   | 2,350,807          | 1,515,807        | 1,515,807                                   | 8,982,427   | 4,541,007       |
| 1063220                        | Floyd          | Floyd-Floyd County Public Service Authority | P-O        | Floyd-Floyd Co PSA-Well #6 - new                  | The proposed well will supply water to system at 160 gpm @ 284' total dynamic head with 3" drop piping totaling 294' of 3" drop pipe, 45' of 4" booster station piping station piping and 3,323 LF of 6" pipe to connect to the system.                                        | Inadequate water supply                                                                     | This well will benefit the system by adding additional source capacity of 160 gpm to the water system.                                         | 2300       | 495                 | O                       | Active                                                            | 13          | 20   | 135,207            | 135,207          | 135,207                                     | 9,117,634   | 4,405,800       |
| 1167900                        | Russell        | Russell County Board of Supervisors         | P-O        | Russell Co BOS- Green Valley Water Line Extension | The proposed project consists of the installation of approximately 24,500 LF of 8-inch water line; 9,300 LF of 6-inch water line; 4,340 LF of 2-inch and 4-inch service lines; 36 gate valves of varying sizes; 17 fire hydrants; 167 service meters; one 150,000 gallon tank. | Poor water quality and quantity                                                             | The project will benefit 165 residents and two commerical customers in the service area by providing a safe and dependable water supply.       | 2460       | 988                 | O                       | Active                                                            | 6           | 21   | 1,895,570          | 952,000          | 952,000                                     | 10,069,634  | 3,453,800       |
| 1105500                        | Lee            | Lee County Public Service Authority         | P-O        | Stickleyville Community - Line Extension          | The project will include: installation of 80,000 LF of 8-inch water line; installation of 9,100 LF of 6-inch water line; installation of 7,800 LF of 4-inch water line; installation of 600 LF of 2-inch water line; etc.                                                      | Unreliable water supplies                                                                   | This proposed project will provide safer and more reliable drinking water to residential customers as well as Stickleyville Elementary School. | 550        | 232                 | O                       | Active --- initially Incomplete due to source issue               | 47          | 22   | 4,722,042          | 2,322,042        | 2,322,042                                   | 12,391,676  | 1,131,758       |

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| FY 2007 Virginia DWSRF Program |                |                                   |            |                                                 |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                |            |                     | Designation Codes: |                                                                           | H = health                                                        |      |                    |                  |                                             |             |                 |  |
|--------------------------------|----------------|-----------------------------------|------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|--------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|--|
|                                |                |                                   |            |                                                 |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                |            |                     |                    | O = other                                                                 |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                                 |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                |            |                     |                    | N = not eligible                                                          |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                                 |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                |            |                     |                    | P = in pipeline;pending                                                   |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                                 |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                |            |                     |                    | I I                                                                       | projects are in the pipeline for correction of problems           |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                                 |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                |            |                     |                    | V                                                                         | with their response/lack of response to our solicitation request. |      |                    |                  |                                             |             |                 |  |
| PWS ID                         | County or City | Owner Name                        | Owner Type | Project Name                                    | Project Description                                                                                                                                                                                                                                              | Project Problem                                                         | Project Benefit                                                                                                                | Population | Project Connections | Designation        | Activity                                                                  | Point Total                                                       | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |  |
| 4103600                        | Lancaster      | Kilmarnock, Town of               | P-O        | Town of Kilmarnock- New well to replace well #3 | The project scope shall include the following: drilling of a 17 inch borehole; furnish and install 10 inch steel casing and stainless steel screen(s); perform all pressure grouting, well development, drawdown testing, water sampling, cleaning of well, etc. | Issues of quality and quantity of water supply.                         | The project will provide safe and adequate drinking water to its users.                                                        | 1244       | 829                 | H                  | Active --- initially Incomplete due to lack of town council resolution.   | 17                                                                | 24   | 370,550            | 370,550          | 370,550                                     | 12,762,226  | 761,208         |  |
| 1173783                        | Smyth          | Smyth County Board of Supervisors | P-O        | Smyth Co. BOS- Pioneer Road line extension      | The project totals 19,600 linear feet of 6" PVC to serve 38 residents and also includes 35 fire hydrants for public safety.                                                                                                                                      | Water quality problems from private wells with iron and sulfur content. | The project will improve the water quality from the private wells which now serve the residents.                               | 100        | 38                  | O                  | Active --- initially incomplete due to user agreemnts.                    | 16                                                                | 26   | 1,067,500          | 622,000          | 622,000                                     | 13,384,226  | 139,208         |  |
| 1105200                        | Lee            | Jonesville, Town of               | P-O        | Tanbark Community (Rt 70) Water Line Extension  | This project consists of approximately 24,500 LF of 4- and 6-inch water lines, 1 pressure reducing station and all associated appurtenances. This system is an extension off of the existing Ridgeview system, constructed in 2003.                              | Unreliable water from privately owned wells and springs.                | This project will benefit the 55 residential connections who will now be served by a central water system to meet their needs. | 133        | 55                  | O                  | Active - Has other VDH funding. Initially incomplete due to source issue. | 7                                                                 | 27   | 810,113            | 810,113          | 139,208                                     | 13,523,434  | 0               |  |
|                                |                |                                   |            |                                                 |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                |            |                     |                    |                                                                           |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                                 |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                |            |                     |                    |                                                                           |                                                                   |      |                    |                  |                                             |             |                 |  |

DWSRF Program - FY 2007  
Comprehensive Project List

| FY 2007 Virginia DWSRF Program |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    | Designation Codes: |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|---------------------------------------|------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------------|-------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                            | Owner Type | Project Name                                          | Project Description                                                                                                                                                                                                                                                    | Project Problem                                                                                                        | Project Benefit                                                                                                                                                                    | Population         | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
|                                |                |                                       |            |                                                       |                                                                                                                                                                                                                                                                        |                                                                                                                        |                                                                                                                                                                                    |                    |                     |                         |                                                                   |             |      |                    |                  |                                             |             | 13,523,434      |
| 2015450                        | Augusta        | Augusta County Service Authority      | P-O        | Augusta Co SA-Middlebrook Filtration Project          | The proposed project includes the installation of one skid-mounted membrane filtration unit rated for 30,000 gpd.                                                                                                                                                      | Dramatic decline in water quality including high fecal coliform counts.                                                | This project will benefit the public health of residents and businesses by increase protection against gastrointestinal illnesses through improvements in filtration.              | 85                 | 37                  | H                       | Active - Has other VDH funding                                    | 30          | 1    | 226,908            | 223,072          | 198,534                                     | 198,534     | 13,324,900      |
| 1191                           | Washington     | Washington County Service Authority   | P-O        | Washington Co SA-Mendota Road -Line Extension Phase I | The proposed project would construct 8,625 feet of 8" waterline. This project is the first phase of a larger project which will extend water all the way to the Mendota community. Fire flows will be provided and the source of supply will be the WCSA.              | Questionable quality and quantity water from private sources.                                                          | This project will provide water those persons who do not have access to public drinking water.                                                                                     | 35                 | 15                  | H                       | Active                                                            | 18          | 2    | 270,644            | 248,144          | 248,144                                     | 446,678     | 13,076,756      |
| 1191883                        | Scott          | Scott County Public Service Authority | P-O        | Boozy Creek Phase II - Line Extension                 | The proposed project will include installation of 19,193 LF of 8" water line; installation of 8,618 LF of 6" water line; installation of 2,400 LF of 4" water line; installation of 500 LF of 2" water line; installation of 2,400 LF of 3/4" water line.              | Inadequate water quality and quantity of available water sources and contamination of individual springs and/or wells. | This Phase II will improve the overall quality of life and welfare for 45 households and provide for a safe and reliable water service provided by this extension of public water. | 81                 | 45                  | H                       | Active - Has other VDH funding                                    | 17          | 3    | 1,037,292          | 1,007,292        | 423,063                                     | 869,741     | 12,653,693      |
| 1169650                        | Scott          | Scott County Public Service Authority | P-O        | Scott Co PSA-A.P. Carter Highway -Line Extension      | The proposed project will include installation of 4,000 LF of 8" water line; installation of 14,765 LF of 6" water line; installation of 6,500 LF of 4" water line; installation of 1,800 LF of 3/4" water line, installation of 20 fire hydrants for fire protection. | Individual springs and/or wells with inadequate water quality, quantity, and contamination.                            | The extension will improve the overall quality of life and welfare for 48 households, provide safe and reliable water by this extension of public water service.                   | 106                | 48                  | H                       | Active - Has other VDH funding                                    | 17          | 4    | 1,140,037          | 1,100,037        | 620,037                                     | 1,489,778   | 12,033,656      |

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| FY 2007 Virginia DWSRF Program |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      | Designation Codes: |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
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|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                     |            |                                                    |                                                                                                                                                                                                                                                        |                                                                  |                                                                                                                                                                      |                    |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                          | Owner Type | Project Name                                       | Project Description                                                                                                                                                                                                                                    | Project Problem                                                  | Project Benefit                                                                                                                                                      | Population         | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 1191                           | Washington     | Washington County Service Authority | P-O        | WCSA-Tumbling Creek Road Water line Extension      | The proposed project would construct approximately 3,500 feet of 4" waterline. The water line extension would be from the Hayters Gap community water supply.                                                                                          | Questionable quality and quantity of water from private sources. | This project would water to approximately 4 residential connections who presently do not have access to public water and improve service for 3 existing connections. | 10                 | 4                   | H                       | Active                                                            | 16          | 5    | 69,502             | 63,502           | 63,502                                      | 1,553,280   | 11,970,154      |
| 1191                           | Washington     | Washington County Service Authority | P-O        | WCSA-Walker Mountain Rd-Waterline Extension        | The proposed project would construct 5,400 feet of 4-inch waterline and a pumping system consisting of a pitless adapter pump station operated by programmable logic controllers (PLCs) according to demand and a hydropneumatic tank station.         | Questionable quality and quantity of water from private sources. | The project will provide water to approximately 8 residential connections who do not presently have access to public drinking water.                                 | 19                 | 8                   | H                       | Active                                                            | 16          | 6    | 180,730            | 168,730          | 168,730                                     | 1,722,010   | 11,801,424      |
| 1520070                        | Bristol        | Bristol Virginia Utilities          | P-O        | Bristol View Connector-Line Extension              | To construct 12,250 LF of 16" ductile iron pipe, gate valves, and related items.                                                                                                                                                                       | Pump station has recurring maintenance issues.                   | This project will allow the transfer of water directly from the Jonesboro pressure zone to the Bristol View pressure zone without the need for pumping.              | 17308              | 7976                | H                       | Active                                                            | 28          | 7    | 1,506,841          | 1,506,841        | 1,506,841                                   | 3,228,851   | 10,294,583      |
| 1173                           | Smyth          | Smyth County Board of Supervisors   | P-O        | Smyth Co. BOS-North Holston Area -Line Replacement | The project totals approximately 3,150 linear feet of 6" PVC, 400 linear feet of 4" PVC, 1,800 linear feet of 2" PVC to serve these residences, replacement of an existing Pressure Reducing Vault and fire hydrants are also planned for replacement. | Deteriorating galvanized pipes causing significant water loss.   | This project will improve the water quality, pressure, and volume.                                                                                                   | 213                | 85                  | H                       | Active                                                            | 26          | 8    | 523,000            | 473,000          | 473,000                                     | 3,701,851   | 9,821,583       |

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|                                |                |                                          |            |                                                            |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |                    |                     |                         |                                                                   |             |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|------------------------------------------|------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------------|-------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
| FY 2007 Virginia DWSRF Program |                |                                          |            |                                                            |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               | Designation Codes: |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                            |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |                    |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                            |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |                    |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                            |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |                    |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                            |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |                    |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                                            |                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                                                                                                                               |                    |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                               | Owner Type | Project Name                                               | Project Description                                                                                                                                                                                                                                          | Project Problem                                                                                | Project Benefit                                                                                                                                                                                               | Population         | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 5143210                        | Pittsylvania   | Gretna, Town of                          | P-O        | Town of Gretna-Water Treatment Plant Filter Rehabilitation | The scope of the rehabilitation/repairs: remove and dispose of media, clean out filter box, remove and replace existing pipe underdrain, repair underdrain, replace existing nozzles with new nozzles, clean out plenum, furnish and install new media, etc. | Significant amount of media loss and the media is no longer uniform.                           | Improvements to the WTP will eliminate the probability of failures of the rapid sand filters and will also allow the filters to meet current 0.3 NTU requirements and help to achieve future turbidity goals. | 1257               | 641                 | H                       | Active                                                            | 33          | 9    | 197,000            | 197,000          | 197,000                                     | 3,898,851   | 9,624,583       |
| 1167050                        | Russell        | Russell County W & S Authority           | P-O        | Castlewood Heights Water Line Replacement                  | The project includes approximately 8,000 LF of water line replacement in Castlewood Heights and Clairmont Estates Subdivisions and at least six fire hydrants will be included in the project.                                                               | Unreliability of water from small old galvanized water lines which experience frequent breaks. | The project will improve the reliability of water and leaks.                                                                                                                                                  | 238                | 95                  | H                       | Active - Has other VDH funding                                    | 31          | 10   | 427,378            | 400,000          | 300,000                                     | 4,198,851   | 9,324,583       |
| 2560100                        | Alleghany      | Clifton Forge, Town of                   | P-O        | Town of Clifton Forge Metering Program-Phase I             | The metering project will install 1,421 water meters to all customers.                                                                                                                                                                                       | Town's water system has few water meters and no way to determine system leakage.               | This project will give the Town the ability to manage the water system and help to determine the amount of water loss that is occurring in the system.                                                        | 4289               | 1471                | H                       | Active - Has other VDH funding                                    | 20          | 11   | 2,793,950          | 1,034,000        | 760,500                                     | 4,959,351   | 8,564,083       |
| 1027061                        | Buchanan       | Buchanan County Public Service Authority | P-O        | Buchanan Co PSA-Hurley/Roseann Water Line Extension        | The proposed water distribution system will consist of 12,200 LF of 8-inch water line; 7,200 LF of 6-inch water line; 7,300 LF of 3/4-inch service line; 13 fire hydrants and appurtenances including gate valves, blow-off valves, air release valves, etc. | Individual wells or springs with contaminated water.                                           | This new water system will connect service to those not currently served by a public water system.                                                                                                            | 184                | 62                  | H                       | Active                                                            | 32          | 12   | 1,357,957          | 152,961          | 152,961                                     | 5,112,312   | 8,411,122       |

| FY 2007 Virginia DWSRF Program |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          | Designation Codes: |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|-------------------------------------------|------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------------|-------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |                    |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |                    |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |                    |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |                    |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                           |            |                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                 |                                                                                                                          |                    |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                                | Owner Type | Project Name                                       | Project Description                                                                                                                                                                                                                                                | Project Problem                                                                                                 | Project Benefit                                                                                                          | Population         | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 1167050                        | Russell        | Russell County W & S Authority            | P-O        | Blue Devil Water Tank Replacement                  | The project includes demolition of an existing 600,000 gallon welded steel water tank, construction of a new 440,000 gallon glass-coated water storage tank on the existing tank footprint, and a check valve vault that will allow the tank to be filled.         | Water storage tank in poor condition.                                                                           | The project will replace an existing water tank that is vital due to its central location within the water system.       | 2600               | 1022                | H                       | Active - Has other VDH funding                                    | 28          | 13   | 407,192            | 334,000          | 200,400                                     | 5,312,712   | 8,210,722       |
| 1520070                        | Bristol        | Bristol Virginia Utilities                | P-O        | Hassan Heights- New Water Tank                     | To construct a new 2 million gallon water storage tank in the Exit 7 area, in the area of Hassan Heights; associated work includes 1,750 LF of 16" ductile iron pipe, access road, and related items.                                                              | Insufficient storage capacity within the customer service area in the event of a serious main water line break. | This project will ensure a water supply sufficient to provide water to the customers in the event of a water line break. | 17308              | 7976                | H                       | Active                                                            | 13          | 14   | 959,227            | 959,227          | 959,227                                     | 6,271,939   | 7,251,495       |
| 1169650                        | Scott          | Scott County Public Service Authority     | P-O        | Scott Co PSA- Frisco (Rt 639) Water Line Extension | This project consists of approximately 19,000 LF of 4-and 6-inch water lines and all associated appurtenances. This system is an extension off of the existing Yuma water system, which the Scott County PSA owns and operates.                                    | Unreliable water from privately owned wells and springs.                                                        | This project will benefit the 30 residential connections being served by a central water system to meet their needs.     | 69                 | 30                  | H                       | Active - Has other VDH funding                                    | 17          | 15   | 667,728            | 667,728          | 280,446                                     | 6,552,385   | 6,971,049       |
| 1105                           | Lee            | Lee County Public Service Authority       | P-O        | Robbins Chapel Water Extension Phase II            | The proposed project will include: installation of 2,000 LF of 10" water line; installation of 1,000 LF of 8" water line; installation of 25,750 LF of 6" water line; installation of 1,000 LF of 4" water line; installation of 4,000 LF of 3/4" water line ,etc. | Inadequate water quality, quantity, and/or contaminated private water systems.                                  | This project will allow residents to have safe, reliable and quality water service.                                      | 180                | 72                  | O                       | Active - Has other VDH funding                                    | 42          | 16   | 1,940,816          | 676,142          | 283,980                                     | 6,836,365   | 6,687,069       |
| 1051726                        | Dickenson      | Dickenson County Public Service Authority | P-O        | Dickenson Co PSA-Tempest Branch Line Extension     | The proposed project will consist of approximately 9,520 LF of 6" and 4,200 LF of 2" water line and appurtenances.                                                                                                                                                 | No reliable safe water source and a health hazard exists in this area.                                          | This project will provide a safe reliable water supply to the homes within the service area and promote modest growth.   | 107                | 42                  | O                       | Active                                                            | 22          | 17   | 321,200            | 321,200          | 321,200                                     | 7,157,565   | 6,365,869       |

| Designation Codes:             |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | H = health              |                                                                   |             |      |                    |                  |                                             |             |                 |
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| FY 2007 Virginia DWSRF Program |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | O = other               |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | N = not eligible        |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | P = in pipeline;pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | I I                     | projects are in the pipeline for correction of problems           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                             |            |                                                   |                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                |            |                     | V                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                                  | Owner Type | Project Name                                      | Project Description                                                                                                                                                                                                                                                            | Project Problem                                                                             | Project Benefit                                                                                                                                | Population | Project Connections | Designation             | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 1185685                        | Tazewell       | Tazewell County Public Service Authority    | P-O        | TCPSA-Red Ash Water Line Extension                | The proposed project includes approximately 18,000 LF of 6-inch water line; 1,000 LF of 4-inch water line; 6,750 LF of 3/4-inch water line; one pressure reducing valve vault and other associated appurtenances.                                                              | Unsafe and unreliable source of water from privately owned wells or springs.                | This project will provide a safe reliable waater source for the project area.                                                                  | 203        | 81                  | O                       | Active - Has other VDH funding                                    | 16          | 18   | 1,242,963          | 309,055          | 309,055                                     | 7,466,620   | 6,056,814       |
| 1195900                        | Wise           | Wise County Public Service Authority        | P-O        | Lower Birchfield Water Line Extension             | The proposed project includes: installation of 10,570 LF of 8" water line; installation of 33,100 LF of 6" water line; installation of 5,950 LF of 4" water line; installation of 1,815 LF of 2" water line; installation of 3,200 LF of 3/4" water line; etc.                 | Individual wells and springs with inadequate water quality, quantity, and/or contamination. | This project will allow residents to have a safe, reliable, quality of water service.                                                          | 203        | 81                  | O                       | Active                                                            | 16          | 19   | 2,350,807          | 1,515,807        | 1,515,807                                   | 8,982,427   | 4,541,007       |
| 1063220                        | Floyd          | Floyd-Floyd County Public Service Authority | P-O        | Floyd-Floyd Co PSA-Well #6 - new                  | The proposed well will supply water to system at 160 gpm @ 284' total dynamic head with 3" drop piping totaling 294' of 3" drop pipe, 45' of 4" booster station piping station piping and 3,323 LF of 6" pipe to connect to the system.                                        | Inadequate water supply                                                                     | This well will benefit the system by adding additional source capacity of 160 gpm to the water system.                                         | 2300       | 495                 | O                       | Active                                                            | 13          | 20   | 135,207            | 135,207          | 135,207                                     | 9,117,634   | 4,405,800       |
| 1167900                        | Russell        | Russell County Board of Supervisors         | P-O        | Russell Co BOS- Green Valley Water Line Extension | The proposed project consists of the installation of approximately 24,500 LF of 8-inch water line; 9,300 LF of 6-inch water line; 4,340 LF of 2-inch and 4-inch service lines; 36 gate valves of varying sizes; 17 fire hydrants; 167 service meters; one 150,000 gallon tank. | Poor water quality and quantity                                                             | The project will benefit 165 residents and two commerical customers in the service area by providing a safe and dependable water supply.       | 2460       | 988                 | O                       | Active                                                            | 6           | 21   | 1,895,570          | 952,000          | 952,000                                     | 10,069,634  | 3,453,800       |
| 1105500                        | Lee            | Lee County Public Service Authority         | P-O        | Stickleyville Community - Line Extension          | The project will include: installation of 80,000 LF of 8-inch water line; installation of 9,100 LF of 6-inch water line; installation of 7,800 LF of 4-inch water line; installation of 600 LF of 2-inch water line; etc.                                                      | Unreliable water supplies                                                                   | This proposed project will provide safer and more reliable drinking water to residential customers as well as Stickleyville Elementary School. | 550        | 232                 | O                       | Active --- initially Incomplete due to source issue               | 47          | 22   | 4,722,042          | 2,322,042        | 2,322,042                                   | 12,391,676  | 1,131,758       |



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| FY 2007 Virginia DWSRF Program |                |                                         |            |                                                            |                                                                                                                                                                                                                                                                  |                                                                         | Designation Codes:                                                                                                                                                                             |            |                     | H = health               |                                                                         |             |      |                    |                  |                                             |             |                 |
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|                                |                |                                         |            |                                                            |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                                                                                |            |                     | O = other                |                                                                         |             |      |                    |                  |                                             |             |                 |
|                                |                |                                         |            |                                                            |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                                                                                |            |                     | N = not eligible         |                                                                         |             |      |                    |                  |                                             |             |                 |
|                                |                |                                         |            |                                                            |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                                                                                |            |                     | P = in pipeline;pending  |                                                                         |             |      |                    |                  |                                             |             |                 |
|                                |                |                                         |            |                                                            |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                                                                                |            |                     | I I                      | projects are in the pipeline for correction of problems                 |             |      |                    |                  |                                             |             |                 |
|                                |                |                                         |            |                                                            |                                                                                                                                                                                                                                                                  |                                                                         |                                                                                                                                                                                                |            |                     | V                        | with their response/lack of response to our solicitation request.       |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                              | Owner Type | Project Name                                               | Project Description                                                                                                                                                                                                                                              | Project Problem                                                         | Project Benefit                                                                                                                                                                                | Population | Project Connections | Designation              | Activity                                                                | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 1035088                        | Carroll        | Carroll County Public Service Authority | P-O        | Carroll Co. PSA-Airport Rd/Rt 100 connector Line Extension | The proposed project includes approximately 67,400 LF of 12" water and smaller water lines and related appurtenances.                                                                                                                                            | Unsafe and unreliable drining water supply source.                      | The project will provide a safe, reliable drinking water supply source, and interconnect the Rt 100 water system to the Rt 620/Airport Road extension to approximately 250 homes and a school. | 4072       | 2218                | P = in pipeline; pending | BYPASS- Not Ready- needs to address number of users                     | 35          | 23   | 3,507,300          | 3,507,300        | 0                                           | 12,391,676  | 1,131,758       |
| 4103600                        | Lancaster      | Kilmarnock, Town of                     | P-O        | Town of Kilmarnock- New well to replace well #3            | The project scope shall include the following: drilling of a 17 inch borehole; furnish and install 10 inch steel casing and stainless steel screen(s); perform all pressure grouting, well development, drawdown testing, water sampling, cleaning of well, etc. | Issues of quality and quantity of water supply.                         | The project will provide safe and adequate drinking water to its users.                                                                                                                        | 1244       | 829                 | H                        | Active --- initially Incomplete due to lack of town council resolution. | 17          | 24   | 370,550            | 370,550          | 370,550                                     | 12,762,226  | 761,208         |
| 1173783                        | Smyth          | Smyth County Board of Supervisors       | P-O        | Smyth Co. BOS-Fox Valley Road-Line Extensio                | The project totals 15,750 linear feet of 6" PVC to serve these 18 residences.                                                                                                                                                                                    | Water quality problems from private wells which contain coliform.       | The project will improve the water quality from the private wells which now serve the residents.                                                                                               | 45         | 18                  | P = in pipeline; pending | BYPASS- Not Ready- needs to address number of users                     | 12          | 25   | 752,000            | 752,000          | 0                                           | 12,762,226  | 761,208         |
| 1173783                        | Smyth          | Smyth County Board of Supervisors       | P-O        | Smyth Co. BOS-Pioneer Road line extension                  | The project totals 19,600 linear feet of 6" PVC to serve 38 residents and also includes 35 fire hydrants for public safety.                                                                                                                                      | Water quality problems from private wells with iron and sulfur content. | The project will improve the water quality from the private wells which now serve the residents.                                                                                               | 100        | 38                  | O                        | Active --- intially incomplete due to user agreemnts.                   | 16          | 26   | 1,067,500          | 622,000          | 622,000                                     | 13,384,226  | 139,208         |

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| FY 2007 Virginia DWSRF Program |                |                                   |            |                                                         |                                                                                                                                                                                                                                                                   |                                                                |                                                                                                                                                                                                | Designation Codes: |                     | H = health               |                                                                           |             |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|-----------------------------------|------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|--------------------------|---------------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
|                                |                |                                   |            |                                                         |                                                                                                                                                                                                                                                                   |                                                                |                                                                                                                                                                                                |                    |                     | O = other                |                                                                           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                   |            |                                                         |                                                                                                                                                                                                                                                                   |                                                                |                                                                                                                                                                                                |                    |                     | N = not eligible         |                                                                           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                   |            |                                                         |                                                                                                                                                                                                                                                                   |                                                                |                                                                                                                                                                                                |                    |                     | P = in pipeline;pending  |                                                                           |             |      |                    |                  |                                             |             |                 |
|                                |                |                                   |            |                                                         |                                                                                                                                                                                                                                                                   |                                                                |                                                                                                                                                                                                |                    |                     | I I                      | projects are in the pipeline for correction of problems                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                                   |            |                                                         |                                                                                                                                                                                                                                                                   |                                                                |                                                                                                                                                                                                |                    |                     | V                        | with their response/lack of response to our solicitation request.         |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                        | Owner Type | Project Name                                            | Project Description                                                                                                                                                                                                                                               | Project Problem                                                | Project Benefit                                                                                                                                                                                | Population         | Project Connections | Designation              | Activity                                                                  | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 1105200                        | Lee            | Jonesville, Town of               | P-O        | Tanbark Community (Rt 70) Water Line Extension          | This project consists of approximately 24,500 LF of 4- and 6-inch water lines, 1 pressure reducing station and all associated appurtenances. This system is an extension off of the existing Ridgeview system, constructed in 2003.                               | Unreliable water from privately owned wells and springs.       | This project will benefit the 55 residential connections who will now be served by a central water system to meet their needs.                                                                 | 133                | 55                  | O                        | Active - Has other VDH funding. Initially incomplete due to source issue. | 7           | 27   | 810,113            | 810,113          | 139,208                                     | 13,523,434  | 0               |
| 1195650                        | Wise           | Pound, Town of                    | P-O        | Town of Pound-JW Adams Tank & Pump Station Improvements | The proposed project consists of one water storage tank (150,000 gallon), possible upgrading of the existing pump station, telemetry at the tank and pump station, approximately 1,500 LF of 6" ductile iron pipe to connect the tank to the existing system.     | Undersized old water lines with breaks causing water shortage. | The project will allow WCPSA to supply a neighboring community with water in time of emergency and create a loop in the town's existing system to allow for replacement of the existing lines. | 1089               | 1155                | P = in pipeline; pending | BYPASS - Not Ready- needs a PER.                                          |             | 28   | 340,600            | 340,600          | 0                                           | 13,523,434  | 0               |
| 1173                           | Smyth          | Smyth County Board of Supervisors | P-O        | Pleasant Heights Subdivision Line Extension             | The project totals approximately 9,000 linear feet of 6" PVC, 400 linear feet of 4" PVC to serve these residences, and fire hydrants stub-outs are also designed for the future installation as system hydraulics are improved.                                   | Deteriorating galvanized pipes causing significant water loss. | This project will improve the water quality, pressure and volume to the customers.                                                                                                             | 217                | 87                  | P = in pipeline; pending | BYPASS - owner withdrew.                                                  | 26          | 29   | 600,000            | 400,000          | 0                                           | 13,523,434  | 0               |
| 5029085                        | Buckingham     | Buckingham County Water System    | P-O        | Buckingham Co.-New Water Treatment Plant                | Construction of a new 1.65 mgd water treatment plant. Chemical tanks, flash mix tanks, flocculation tanks, sedimentation basins and filtration make up the raw treatment. Chemical tanks, finish pumps and two 250,000 gallon storage tanks make up the finished. | Not enough water to meet user demands.                         | Compliance with new EPA Regulations and provide safe potable water.                                                                                                                            | 813                | 271                 | O                        | BYPASS - owner withdrew.                                                  | 24          | 30   | 10,000,000         | 2,500,000        | 0                                           | 13,523,434  | 0               |

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| FY 2007 Virginia DWSRF Program |                |                                   |            |                                              |                                                                                                                                                                                                                                                                              |                                                                                                        |                                                                                                                    |            |                     | Designation Codes: |                                                                                              | H = health                                                        |      |                    |                  |                                             |             |                 |  |
|--------------------------------|----------------|-----------------------------------|------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------|---------------------|--------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|--|
|                                |                |                                   |            |                                              |                                                                                                                                                                                                                                                                              |                                                                                                        |                                                                                                                    |            |                     |                    | O = other                                                                                    |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                              |                                                                                                                                                                                                                                                                              |                                                                                                        |                                                                                                                    |            |                     |                    | N = not eligible                                                                             |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                              |                                                                                                                                                                                                                                                                              |                                                                                                        |                                                                                                                    |            |                     |                    | P = in pipeline;pending                                                                      |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                              |                                                                                                                                                                                                                                                                              |                                                                                                        |                                                                                                                    |            |                     |                    | I I                                                                                          | projects are in the pipeline for correction of problems           |      |                    |                  |                                             |             |                 |  |
|                                |                |                                   |            |                                              |                                                                                                                                                                                                                                                                              |                                                                                                        |                                                                                                                    |            |                     |                    | V                                                                                            | with their response/lack of response to our solicitation request. |      |                    |                  |                                             |             |                 |  |
| PWS ID                         | County or City | Owner Name                        | Owner Type | Project Name                                 | Project Description                                                                                                                                                                                                                                                          | Project Problem                                                                                        | Project Benefit                                                                                                    | Population | Project Connections | Designation        | Activity                                                                                     | Point Total                                                       | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |  |
| 2015375                        | Augusta        | Augusta County Service Authority  | P-O        | Augusta Co SA-Harriston East Tank Project    | The proposed project includes one 300,000 gallon, 150 foot elevated water storage tank and associated piping in the treatment building extending to the immediately adjacent proposed tank. It also includes 2 new well pumps.                                               | Aging tanks that are in poor physical condition and provide unreliable water service to the residents. | This project will benefit the residents with a reliable storage tank.                                              | 428        | 108                 | H                  | Active-- Has other VDH funding. Initially Not Eligible due to Growth which has been removed. | 10                                                                | 31   | 1,000,935          | 1,000,935        | 0                                           | 13,523,434  | 0               |  |
| 1173                           | Smyth          | Smyth County Board of Supervisors | P-O        | Smyth Co. BOS-Whitetop Road - Line Extension | The project totals approximately 2,000 linear feet of 8" PVC, 1,700 linear feet of 6" PVC, 600 linear feet of 4" PVC to serve these residents, and three fire hydrants are requested to improve public safety in the area.                                                   | Poor water quality from existing wells.                                                                | The project will improve the water quality from private wells which now serve the residents.                       | 27         | 10                  | N                  | BYPASS - Growth.                                                                             | 10                                                                | 32   | 164,625            | 149,625          | 0                                           | 13,523,434  | 0               |  |
| 1167455                        | Russell        | Lebanon, Town of                  | Active     | Town of Lebanon Water Storage Improvements   | The proposed project consists of one new 1,000,000 gallon water storage tank including approximately 2,000 linear feet of 12-inch water line, the upgrade of an existing pump station capacity to 625 gpm, the replacement of one existing tank with a new 1,000,000 gallon. | Need for additional water storage.                                                                     | The project will provide additional residential storage and regional storage for water supply and fire protection. | 3375       | 1789                | N                  | BYPASS - Growth.                                                                             | 10                                                                | 33   | 1,736,000          | 1,250,000        | 0                                           | 13,523,434  | 0               |  |

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